

Lecture Module - Electrical Instruments

ME3023 - Measurements in Mechanical Systems

Mechanical Engineering
Tennessee Technological University

Topic 1 - Performing Analog Measurements

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- Safety and Electricity
- Using a Digital Multimeter
- Measuring Voltage and Current
- Measuring Resistance and Continuity



Sanwa YX360TRF

Safety and Electricity

Complete the safety training modules to learn more.

Using a Digital Multimeter

Benchtop Multimeter

- DMM
- Interface varies by manufacturer



Image: Fluke Multimeter



Image: Bk Precision Multimeter

Using a Digital Multimeter

Handheld Multimeter



Image:



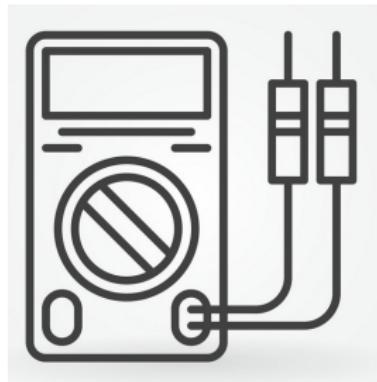
Image:



Image:

Measuring Voltage and Current

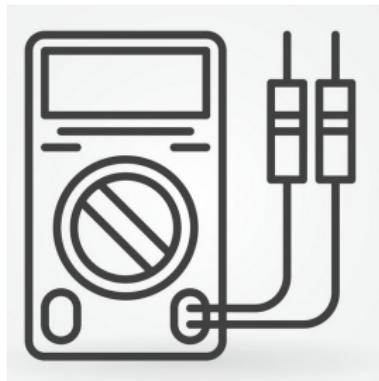
Voltage



**Read about measuring DC voltage
or AC voltage**

Measuring Voltage and Current

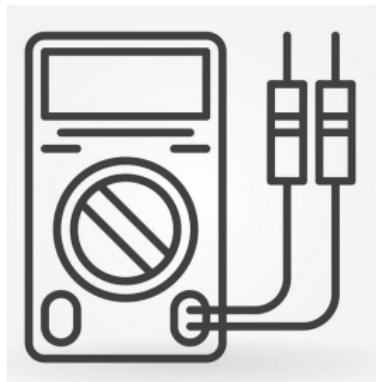
Current



Read about measuring current (with clamp)

Measuring Resistance and Continuity

Resistance



Read about measuring resistance.

Measuring Resistance and Continuity

Continuity



Read about measuring continuity